Daily GLOWBUGS

Digest: V1 #62

via AB4EL Web Digests @ SunSITE

Purpose: building and operating vacuum tube-based QRP rigs

[AB4EL Ham Radio Homepage @ SunSITE](#)

Date: Fri, 20 Jun 1997 09:22:18 -0700 (PDT)
From: tomrice@netcom.com (Tom R. Rice)
Subject: 6T9 xmtr note

> After finally getting the 6T9 CW rig going, I was
> having troubles with flaky dips and low power output.
>
> Bob (NA4G) suggested that the rig might be overcoupled
> between the osc and amp sections. The original circuit
> shows a 2000 mmfd coupling cond. I tried values from 1000
> down to 100.
>
> An immediate improvement was noted with the 1000 mmfd
> condenser; I settled on a 220 mmfd job.
>
> Now the dips are more "normal", i.e., smooth, decreasing
> in depth with increased loading.
>
> Before this I was running ~9.5 watts DC in and getting
> ~4 watts into the dummy load. Now I have 13 watts DC
> in and 6.5 watts into 50 ohms. (40 meters)
>
> Check it out!
>
> 73 de WB6BYH

- --
"Start off every day with a smile and get it over with." --W.C.Fields
Tom R. Rice
tomrice@netcom.com
CIS: 71160,1122

Date: Fri, 20 Jun 1997 16:44:59 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>
Subject: "Graph" maker???

      Does anyone know of a computer program that will take a set of
graphical ordinates (such as frequency in Mhz., and dial readings
in a range of 0-100) and construct and plot the graph on the screen?
It would be nice to have something that will do your plotting and
curve drawing, while you determine graph size and type (linear, semi-log, log).
This complete with drawing the grid or just with "ticks on the box
surrounding the plot!
      I guess such a thing exists that isn't part of a $999.95 "CAD"
program?

73,
E. V. Sandy Blaize, W5TVW
"Boat Anchors collected, restored, repaired, traded and used!"
417 Ridgewood Drive,
Metairie, LA., 70001
ebjr@worldnet.att.net
Looking for: 860 tubes, WL-460 tubes
Butternut HF2V antenna, G-R test gear.....................***

Date: Fri, 20 Jun 1997 10:17:24 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: Re: "Graph" maker???

>   Does anyone know of a computer program that will take a set of
> graphical ordinates (such as frequency in Mhz., and dial readings
> in a range of 0-100) and construct and plot the graph on the screen?

Yes. There are several. One is called FIG-P. I will get the details for
you. It was used in Chemistry and Metallurgy research labs for years.
HP makes one for UNIX systems.

Ken W7EKB

Date: Fri, 20 Jun 1997 10:34:00 -0700
From: "Bowman, Jim" <Jim_Bowman@ATK.COM>
Subject: RE: "Graph" maker???

Sandy, EXCEL easily constructs graphs based on data entered in the
spreadsheet.

73,
Jim Bowman W7HPK
jim_bowman@ATK.COM

From: Sandy W5TVW
To: boatanchors@theporch.com; glowbugs@www.atl.org; qrp-l@lehigh.edu
Subject: "Graph" maker???
Date: Fri, Jun 20, 1997 9:44AM

Does anyone know of a computer program that will take a set of
graphical ordinates (such as frequency in Mhz., and dial readings
in a range of 0-100) and construct and plot the graph on the screen?
It would be nice to have something that will do your plotting and
curve drawing, while you determine graph size and type (linear,
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Butternut HF2V antenna, G-R test gear.....................*

Date: Fri, 20 Jun 1997 10:36:06 -0700
From: "Ben Wallace" <bwallace@sd.cts.com>
Subject: Re: "Graph" maker???

MS Excel will also do it.

- ----------
> From: Ken Gordon <keng@uidaho.edu>
> To: Sandy W5TVW <ebjr@worldnet.att.net>
> Cc: boatanchors@theporch.com; glowbugs@www.atl.org; qrp-l@lehigh.edu
> Subject: Re: "Graph" maker???
> Date: Friday, June 20, 1997 10:17 AM
>
> >   Does anyone know of a computer program that will take a set of
> > graphical ordinates (such as frequency in Mhz., and dial readings
> > in a range of 0-100) and construct and plot the graph on the screen?
>
> Yes. There are several. One is called FIG-P. I will get the details for
> you. It was used in Chemistry and Metallurgy research labs for years.
> HP makes one for UNIX systems.
>
> Ken W7EKB
>

Date: Fri, 20 Jun 1997 10:40:42 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: Re: "Graph" maker???

On Fri, 20 Jun 1997, Ken Gordon wrote:

> >   Does anyone know of a computer program that will take a set of
> > graphical ordinates (such as frequency in Mhz., and dial readings

```
> > in a range of 0-100) and construct and plot the graph on the screen?
>
> Yes.  There are several. One is called FIG-P.  I will get the details for
> you.  It was used in Chemistry and Metallurgy research labs for years.
> HP makes one for UNIX systems.
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Oh, yes, I forgot some other, more easily found ones: ANY SPREADSHEET !!!

Even a share-ware spreedsheet such as AS-EASY-AS will do this. It has a
choice of several different styles of graphs also. QuattroPro, Excel,
Lotus all do this.

Ken W7EKB

Date: Fri, 20 Jun 1997 13:56:41 -0400 (EDT)
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: Re: "Graph" maker???

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>          Does anyone know of a computer program that will take a set of
> graphical ordinates (such as frequency in Mhz., and dial readings
> in a range of 0-100) and construct and plot the graph on the screen?
> It would be nice to have something that will do your plotting and
> curve drawing, while you determine graph size and type (linear, semi-log,
> log).  This complete with drawing the grid  or just with "ticks on the box
> surrounding the plot!
>          I guess such a thing exists that isn't part of a $999.95 "CAD"
> program?
```

There are two good ways to go. First, if you like screen output I would
recommend the freebie GnuPlot from prep.ai.mit.edu in /pub/gnu. It blows
the socks of of most other things. Second, if you need a simple thing
for dos, there is a thing called graph2.bas from the EARLY dos days and
a thing called DATAPLOT (both 1985 or so vintage) that are pretty good
at simple sorts of things. They can probably be found in the dos archives,
or if you can't I can send it to you. All this stuff we have used around
the lab and I can attest to its validity. If you want windoz stuff, well.....

Bob/NA4G

Date: Fri, 20 Jun 1997 14:23:20 -0400 (EDT)
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: What QTR/QRG for glowbugging this weekend?????

I have been woefully amiss at glowbugging lately, and need to rectify the
situation.... can't let a case of rusty elbowitis set in......(:+}}.....
What QTR/QRG are folks using lately?

Bob/NA4G

Date: Fri, 20 Jun 97 14:27:12 PDT

Hello There, fellow Glowbuggers!

Could anybody E-mail me the pin resistance table for the Hallicrafters
 S-72? It is in Sams Photofacts #82-6 according to my index.

I need the pin resistances for all of the tubes to make sure the
receiver is okay before I fire it up. I have a manual, but I lack
the photofacts that so convienently states the pin resistances.

The previous owner converted it to 12 VDC operation, and I have just
finished converting it back. I used the manual, but this info would
be nice to have before giving it the hard smoke test.

Thanks a lot,

73,

Adam McLaughlin KD6POC
QRG: 7037 KHz
kd6poc@jps.net
http://www.jps.net/jmclaugh
MTC-ARRL-FISTS #3366

On 20 Jun 97 at 9:22, Tom R. Rice wrote:

>   Now the dips are more "normal", i.e., smooth, decreasing
>   in depth with increased loading.
>
>   Before this I was running ~9.5 watts DC in and getting
>   ~4 watts into the dummy load. Now I have 13 watts DC
>   in and 6.5 watts into 50 ohms. (40 meters)

Tom - that is NOT TOO SHABBY!

6.5 watts out from that 6T9 tube is pretty decent power!

How many contacts have you made on it?

I just got the new improved CWCP5 cake pan transmitter going here
with full break-in and AM Cathode modulation.

The AM is not going to do much I am sure, because it is only 1.5
watts output, but I have other BA and GB rigs in the works here that
will run 60 to 400 watts of AM and should be more fun!

Which 6T9 design did you use? Did you make it all up or copy a design
you saw somewhere?

Regards - Bry, AF4K

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****************************************************
*** 73 from Radio AF4K/G3XLQ Gaithersburg, MD USA  *
**  E-mail to:  bry@mnsinc.com                     *
*** See the interesting ham radio resources at:    *
**  http://www.mnsinc.com/bry/                     *
****************************************************
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Date: Sun, 22 Jun 1997 20:55:39 -0400 (EDT)
From: leeboo@ct.net (Leon Wiltsey)
Subject: im messed up

>To:gb
>From: leeboo@ct.net (Leon Wiltsey)
>Subject: im messed up
>Cc:
>Bcc:
>X-Attachments:
>
>Hi Gang
>according to my records I have gotten back to everybody
>who wanted tube prices. If you have not received an email
>from me pse try again, my record keeping leaves much to be desired.
>Am sorry for the problem, but the response overwhelmed me.
>
t THANK THE LORD FOR ALL YOU HAVE

68 yr old semidisabled senior
(stroke got my balance & hand to eye coordination)
ham agn as KF4RCL TECK+ (MUCH HAPPINESS)
BUILD MOST OF MY STATION EQUIP
SUB.BA & GB-- NO SOLID STATE

Leon B Wiltsey (Lee)
4600 Lake Haven BLVD.
Sebring, Fl. 33872

SEBRING FL. WHERE THERE IS NO QRM
FROM ANYTHING LOCAL

End of glowbugs V1 #62
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%%%% GlowBugs %%%% GlowBugs %%%% GlowBugs %%%% GlowBugs %%%%

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Created by **Steve Modena, AB4EL**
Comments and suggestions to **modena@SunSITE.unc.edu**